

Large Particles and Surface Separation Phenomena.
I. A New Emulsifying Machine. Dependence of the
Particle Radius on the Mechanical Conditions, by
L. Jurgen-Lohman [n], 8 pp.

GERMAN, per, Kolloid Z., Vol CXXIV, 1951,
pp 41-43.

ABJ Tr 2223

Scientific - Physics
CTS 73/Oct 1955

27, 143

Globule Size and Interfacial Tension in Emulsions.

II. Dependence of Droplet Radii on Emulsifier
Concentration and Interfacial Tension, by L. Jurgen-
Lohman [n], 10 pp.

GERMAN, per, Kolloid Z., Vol CXXIV, 1951,
pp 77-82.

ABX Tr 2224

Scientific - Physics
CTP 73/Oct 1955

27,144

Breitenbach, J. W., Forster, E. L. and
Renner, A. J.

MOLECULAR WEIGHT DETERMINATIONS WITH
POLYVINYLCHLORIDES. 20p (7 figs omitted) 14refs
Order from SLA \$1.60 TT-64-16479

Trans. of Kolloid Zeitschrift und Zeitschrift für
Polymere) 1952, v. 127, no. 1, p. 1-7.

Another trans. is available from K-H \$25.00 as
K-H-5241, 20p.

(Materials--Plastics, TT, v. 12, no. 4)

TT-64-16479

I. Breitenbach, J. W.
II. Forster, E. L.
III. Renner, A. J.

Office of Technical Services

TT-64-16744

Wüstlin, F. and Klein, H.
THE EFFECTIVENESS OF SOFTENERS IN CONNEC-
TION WITH THE CHEMICAL CONSTITUTION OF
SOFTENERS: 17p (4 figs omitted) 13refs.
Order from SLA \$1.60

I. Wüstlin, F.
II. Klein, H.

TT-64-16744

Trans. of Kolloid Zeitschrift (West Germany) 1952,
v. 128 (no. 3) p. 136-142.
Another trans. is available from K-H \$17.00
as K-H-5309-g (17)p.

(Materials--Plastics, TT, v. 12, no. 4)

Office of Technical Services

Investigation of Iron Amalgams, with Respect to
the Grain Size and Ferromagnetism, by A. Mayer
and E. Vogt, 4 pp.

GERMAN, per, Kolloid Z., Vol CXXV, No 3, Mar 1952,
p 174.

SLA Tr 57-2228

Sci

Jul 58

68,036

The Static Bearing Strength of Lubricating Oil and a
New Characteristic Number for Oils, by L. Ubbelohde,
22 pp. UNCLASSIFIED

Full translation.

GERMAN, per, reprint from, Kolloid Zeitschrift,
Vol CXXVI, No 2/3, 10 Mar 1952.

Navy Tr 699/BuShips 498

Scientific - Fuels, lubricating oil

Jan 53 CTS/DEX

Uberreiter, K. and Ordumann, H.-J
VISCOSITY AND FLOW MECHANISM OF FUSED
HOMOLOGOUS POLYETHYLENES. PT. II of Study
on Polyethylenes. [1963] 26p 26refs
Order from SLA \$2.60 63-18981

Trans. of Kolloid-Zeitschrift [und Zeitschrift für
Polymere] (West Germany) 1952, v. 126, no. 2/3,
p. 140-149.

DESCRIPTORS: *Polyethylene plastics, Viscosity,
Fused materials, Molecular properties, Theory.

The temperature dependence of the viscosity of some
fused polyethylenes of increasing chain length was
determined. The results make it possible to draw
conclusions concerning the migration mechanism in
the fused phase. In this connection, it was found that
the heretofore accepted concept of the flow process of
(Materials-Plastics, TT, v. 10, no. 12) (over)

63-18981

I. Uberreiter, K.
II. Ordumann, H.-J
III. Title: Study ...

Office of Technical Services

Structure and Synthesis of the Halloysites, by
M. Karsulin, V. Stubican,

GERMAN, per, Kolloid Z, Vol CXEVI, 1952, pp 192-199.

ATS 558-GJ

Sci - Chem

Aug 60

123,918

Breitenbach, J. W. and Forster, E. L.
MOLECULAR WEIGHT DETERMINATIONS WITH
POLYVINYL-CHLORIDES. [1962] 20p.
Order from K-H \$25.00 K-H 5241

Trans. of Kolloid-Zeitschrift (West Germany)
1952, v. 127, p. 1-7.

DESCRIPTORS: *Polyvinyl chloride, *Molecular weight,
Determination, *Chlorides.

(Chemistry--Analytical, TT, v. 9, no. 11)

63-12950

I. Breitenbach, J. W.
II. Forster, E. L.
III. K-H-5241
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

On the Electrophoretic Behavior of Pigment Particles
in Detergent Solutions, by W. Kling and H. Lange,
18 pp.

GERMAN, *pt.*, Kolloid Z., Vol CXXVII, No 1, 1952,
pp 19-27.

SLA 57-3066

Sci

Aug 58

71, 581

Visualization (in Depth) of Ultrasonic Fields by
Reduction of Boundary-Surface Energy, by H. H.
Rust, H. Drubba

GERMAN, per, Kolloid Zeitschrift, Vol CXVII,
No 1, 1952, pp 38-39.

Brutcher Tr 3034

Scientific - Physics
CTS/DEK

Price \$1.80

9287

TT-63-18987

Überreiter, K. and Orthmann, H.-J.
DEGREE OF COORDINATION OF SOLID POLY-
ETHYLENES. Pt. III of [Study] on Polyethylenes. [1963]
35p (figs omitted) 32refs
Order from SLA \$3.60

TT-63-18987

I. Überreiter, K.
II. Orthmann, H.-J.
III. Title: Study...

Trans. of Kolloid-Zeitschrift [und Zeitschrift für
Polymere] (West Germany) 1952, v. 128, no. 3,
p. 125-136. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Complex com-
pounds, Molecular structure, Crystal structure,
Pyrolysis,

Topics included: degree of coordination of unbranched
paraffins; degree of coordination of branched poly-
ethylenes; thermal degradation of side groups; degree
of coordination of thermally debranched polyethylenes;
melting-point dependence of degree of coordination; and
side-group dependence of melting point. (See also
TT-63-18981)
(Materials--Plastics, TT, v. 11, no. 1)

Office of Technical Services

Wurstlin, F. and Klein, H.
THE EFFECTIVENESS OF SOFTENERS IN CON-
NECTION WITH THE CHEMICAL CONSTITUTION OF
SOFTNESS. [1963] 17p (figs omitted).
Order from K-H \$17.00

K-H-5309-g

Trans. of [Kolloid- Zeitschrift und Zeitschrift für
Polymere] (West Germany) 1952, v. 128, p. 136-142.

DESCRIPTORS: *Plasticizers Polymers, *Plastics,
Chemical Industry.

(Materials--Plastics, TT. v. 10, no. 12)

63-22794

- I. Wurstlin, F.
- II. Klein, H.
- III. K-H-5309-g
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Specific Heat, Specific Volume, Temperature and
Thermal Conductivity of High Polymers,
by Kurt Heberreiter, Evelyn Otto-Laupendachlen,
22 pp.

German ~~English~~, per, Kolloid Z., Vol CXXXIII, 1953,
pp 26-32.

AEC-SC-T-64-1633

Sci - Phys

Aug 65

287,329

The Connection Between Melting Temperature and
Freezing Temperature of Glasses, by Ernst Jenckel,
4 p.

GERMAN, per, Kolloid-Zeit, 1953, Vol CXXX, No 1,
pp 64-65.

SLA 59-17963

Sci
Mar 60
Vol 2, No 11.

109,613

KOLLOIDTTSCHNEIF

1955	V130	P123-124	70-23700 (<*)
1955	V130	P123	70-23702 (<*)
1955	V130	P123-124	70-10100-0/L (<*)
1955	V130	P127-128	70-23005 (<*)
1955	V131	N1 P4-10	70-23004 (<*)
1955	V131	N2 P09-46	70-11335-084 (<*)
1955	V133	P10-26	70-23003 (<*)
1955	V130	P52-06	70-10700-0/L (<*) 0
1961	V175	N2 P07-44	70-1-07-253 (<*)

COPIES FROM NYC

62-10594

Kuhn, Werner.

SPONTANEOUS BREAKUP OF FLUID CYLINDERS
INTO SMALL SPHERES. [1961] 30p. (4 figs. omitted)
3 refs.

Order from SLA \$2.60

62-10594

Trans. of [Kolloid-Zeitschrift] (West Germany) 1953,
v. 182, no. 2/3 [p. 84-99].

DESCRIPTORS: *Cylindrical bodies, *Fluids, *Spheres
*Spheres, Surface area, Mathematical analysis, Sur-
face tension, Colloids, Particles, Friction.

It was shown that an elongated circular cylinder is in
neutral equilibrium with respect to small expansions
or contractions on the cylinder surface if the expanse
of the expansion or contraction in the direction of the
axis of the cylinder is greater than the radius of the
cylinder, but is stable if the longitudinal expansion of
the disturbances is smaller than the cylinder radius.
(Author)

(Kuhn, Werner) [1961] TT 4-7, no. 11

1. Kuhn, W.

Office of Technical Services

On Humic Acids, by Heinrich Thiele, Helmut Kettner.
GERMAN
REVIEW, per, Kolloid Z, Vol CXXX, 1953, pp 130-160.

Dept of Interior
Bur of Mines

Sci - Chem

Apr 58

SLA 60-11-2-3-1

61,171

On Micelle Formation in Mixed Solutions of Homologous Paraffin Chain Salts, by H. Lange.

GERMAN, per, Kolloid Zeitschrift, Vol CXXI, No 2, May 1953, pp 96-103.

Thornton Research Centre
Misc 421, OT/758

Scientific - Chemistry

May 54 CTS

14,091

Internal Stresses in Polyethylene Coverings ~~SI~~
for Marine Cables, by W. Kortsch, 9 pp.

GERMAN, per, Kolloid Z, Vol ~~CXXVIII~~^X, No 2/3, 1953.

SLA 2228

Sci - Chemistry
Sep 57

53,996

Specific Heat, Specific Volume, Temperature and
Thermal Conductivity of High Polymers,
by Kurt Ueberreiter, Evelyn Otto-Laupenmuhlen, 22 pp.
GERMAN, per, Kolloid-Zeitschrift, Vol CXXXIII, 1953,
pp 26-32. 9226124
AEC-SC-T-64-1633

Sci-Phys
Jan 65

270,623

Parts of Paper on the Use of Models for the
Study of Plastic-Elastic Behaviour, 1 E.
Jenckel.

GERMAN, per, Kolloid Z, Vol CXXIV, No 1,
1953, pp 47-64.

Thurston Research Center
T 549 OF/1339

HEER - Germany
Sci - Physics

29,500

Adsorption and Capillary Condensation in
Activated Carbon, by P. Kubelka.

GERMAN, par, Kolloid Z, Vol CCXIV, No 2,
1954, pp 96-101.

OSTM 3054

Sci. Chem
May 52

178, 468

63-14962

Hess, Kurt.
PROTEIN, GLUTEN, AND LIPOID IN THE WHEAT
GRAIN AND IN THE FLOUR (Protein, Kleber und
Lipoid in Weizenkorn und Mehl). [1963] [43]p.
(foreign text included) 20 refs.
Order from SLA \$4.60 63-14962

Trans. of Kolloid-Zeitschrift (West Germany) 1954,
v. 136, no. 2/3, p. 84-99.

DESCRIPTORS: *Wheat, *Flour, *Proteins, *Gluten,
*Fats, Seeds, Bakery products, *Starches, Phos-
pholipids, Microanalysis, Chemical analysis, Surface
properties, Physical properties.

(Food, TT, v. 10, no. 5)

I. Hess, K.

Office of Technical Services

Heller, S.
NEW METHODS FOR STUDYING MONOMOLECULAR FILMS. [1961] [5]p. (refs. 10 figs. omitted).
Order from SLA \$1. 10 62-10412

Trans. of Kolloid-Zeitschrift (West Germany) 1954,
v. 136, no. 2/3, p. 120-124.

DESCRIPTORS: *Monomolecular films, Films,
Surface tension, Permeability, Thrust, Water,
Evaporation.

(Physics--Molecular, TT, v. 7, no. 9)

62-10412

I. Heller, S.

201343

Office of Technical Services

The Kinetics of Surface Activity, by H. Lange, 31 pp.
GERMAN, per, Kolloid Z, Vol CXXXVI, 1954, pp 136-141.

CIA/FDD KX-647
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Sci - Physics
Aug 59

USIB INTERNAL USE ONLY

93, 421

Microscopic Forms of Iron Rust, by Adolf Ackerman.

Full tr

GERMAN, per, Kolloid-Z, Vol XXXVII, No 1, 1954,
pp 20-24.

Navy Tr 1520/NRL 625

Sci - Chemistry
Sep 57

52,406

The Preparation of Pure Hydrated Ferric Oxide Sol.
IV, by Sita Ram Gupta, et al.

GERMAN, per, Kolloid Z, Vol CXXXVII, No 1, 1954,
pp 24-26.

Navy Tr 1521/NRL 626

Sci - Chem
Sep 57

52, 189

The Precipitation of Brown and Yellow Hydrated Ferric
Oxides, Part V, by Sita Ram Gupta, Satyeshwar Shosh.

GERMAN, per, Kolloid Z, Vol CXXVII, No 1, 1954, pp
26-28.

Navy Tr 1522/NRL 627

Sci-Chem
Sep 57

52,404

Mechanism of Gelation of Polyvinyl Chloride
With Plasticisers, by: A. Hartman, M. Glendon.

GERMANY, 1954, Kolloid-Zeitschrift, Vol CXCVII,
No 2/3, 1954, pp 79-86.

C.S.I.R.O.

Sci-Phys

May 60

115967

Saito, Shuji.

62-18250

THE INTERACTION OF SYNTHETIC POLYMERS AND WETTING AGENTS. I. THE INTERACTION OF POLYELECTROLYTES AND WETTING AGENTS. II. COMPLEX FORMATION BETWEEN POLYMERS AND DETERGENT [Die Wechselwirkung Zwischen Synthetischen Polymeren und Netzmitteln. Teil I: Die Wechselwirkung Zwischen Polyelektrolyt und Netzmittel. Teil II: Komplexbildung Zwischen Polymeren und Detergent]. [1962] 21p. (figs. tables 39 refs. omitted) Order from SLA \$2.60 62-18250

- I. Saito, S.
- II. Title: Comparison...
- III. Title: Complex...

Trans. of Kolloid Zeitschrift (West Germany) 1954 [v. 137, no. 2/3] p. 93-103.

DESCRIPTORS: *Electrolytes, *Polymers, Acrylic acids, Carboxymethylcellulose, Vinyl radicals, Sulfates, Ions, Polyvinyl alcohol, Acetates, Detergents, Adsorption, *Surface-active substances. (Chemistry, TT, v. 10, no. 2)

Office of Technical Services

The Structural Viscosity of Viscose, by
J. Schurz, 11 pp.

GERMAN, per, Kolloid Z, 1954, Vol CXXXVIII,
No 3, pp 149-155.

SLA 59-10148

Sci - Chem
OTS I, 12
Jul 59

92,261

by Von F. Schultz-Grunow

GERMAN, per, Kolbois Z. Vol CXXXVIII, Part 3, 1954,
pp 167-178.

*JPRS for ARGMA R-343-N

R-893-N

Viskoelastisches Deformationsverhalten und
molekulare Prozesse (aus dem Zentralen Lab.
T, N. O. Delft, Holland), by F. Schwarzl

GERMAN, per, Kolloid Zeit, Vol CXXXIX, No 1/2,
1954, pp 52-59

*JPRS/Picatinny Arsenal
Dover, New Jersey

Sci
May 62

Iontropic Gels of Polyuronic Acids: 1.2.3.,
By H. Thiele, G. Andersen.

GERMAN, per, Kolloid Z., Vol CXL, No 2/3, 1955,
pp 76-102; Vol CXLI, No 1, 1955, pp 5-14;
Vol CXLII, No 1, 1955, pp 21-31.

CSIRO-2870

Sci
Aug 58

70,356

Sakurada, Ichiro.
FIBERS FROM POLYVINYL ALCOHOL. (Fasern aus
Polyvinylalkohol). [1962] 18p. 25 refs.
Order from SLA \$1.60

62-20063

Trans. of Kolloid-Zeitschrift (West Germany) 1954,
v. 139, no. 3, p. 155-163.

DESCRIPTORS: *Polyvinyl alcohol, *Fibers (Synthetic),
Textiles, Dyes.

(Materials--Textiles, TT, v. 9, no. 8)

62-20063

1. Sakurada, I.

Office of Technical Services

60-23433

Fritz, W. and Kroepelin, H.
THE PROBLEM OF VISCOSITY MEASUREMENTS IN
NON-NEWTONIAN LIQUIDS, tr. by Bertha P. Klenovn.
5 May 55, 14p. 28 refs. [No.] 3435.
Order from LC or SLA ml\$2.40, ph\$3.30 60-23433

Trans. of Kolloid-Z[schift] (West Germany) 1955,
v. 140, p. 149-157.

Topics discussed include: the general law of flow for
viscous liquids without elasticity; directions for
viscosimetric measurements; an example of the theo-
retical equation for a flow equation for viscous liquids
with elasticity; and the general classification scheme
for flow curves.

1. Liquids--Viscosity
2. Fluid flow--Mathematical
analysis
3. Viscometers--
Performance
- I. Fritz, W.
- II. Kroepelin, H.
- III. TVA-3435
- IV. Tennessee Valley Authority,
Wilson Dam, Ala.

142,990

Office of Technical Services

1-9-61

(Engineering--Chemical, TT, v. 3, no. 3)

61-16182

I. Wäiser, B. von

Wäiser, Bruno von.
SINTERING OF METALS AND METAL COMBINA-
TIONS: PATENT REPT. [1961] 18p. (22 refs. omitted)
134 patent refs.
Order from SLA \$1.60

61-16182

Trans. of Kolloid-Zeitschrift (West Germany) 1955,
v. 140, no. 2/3 [p. 159-164].

DESCRIPTORS: *Sintering, *Powder metallurgy, *Cer-
mets, *Heat resistant alloys, *Sintered alloys

17625

Office of Technical Services

(Metallurgy, TT, v. 6, no. 3)

Physics of Rubber Friction, by A. Schallamach.

GERMAN, per, Kolloid-Z., Vol CXL, No 3, 1955,
pp 165-173.

CSIRO-3064

Sci

Aug 58

71,644

Physics of Rubber Friction, by A. Schallamach.

GERMAN, per, Kolloid-Z., Vol CXLI, No 3, 1955, pp
165-173.

CSIRO-3064

Sci

Aug 58

71,924

Investigation of the Washing Process of Oily
Soils, by W. Kling, H. Lange, 8 pp. KOFOR

GERMANY, par, Kolloid Z, Vol CXLII, 1955,
pp 1-5.

CIA/RDD XX-615

Sci - Geophysics, Physics
JUN 59

ONLY INTERNAL USE ONLY

88,181

63-10929

Löffler, H. J. and König, H.
ELECTRON-MICROSCOPIC IMAGE OF WATER AND
AQUATIC SOLUTIONS DROPS (Zur Elektronen-
mikroskopischen Abbildung von Tropfen aus Wasser und
Wässrigen Lösungen). [1963] [23]p. (foreign text
included) 11 refs.
Order from SLA \$2.60

63-10929

Trans. of Kolloid-Zeitschrift (West Germany) 1955,
v. 142, no. 2/3, p. 65-73.

DESCRIPTORS: *Colloids, *Aerosols, *Water, *Sodium
compounds, Chlorides, Solutions, Crystals, *Electron
microscopy.

Series of methods are described showing how the water
drops or drops of suspensions or solutions, especially
NaCl solution, can be investigated in an electron
microscope after being dried on specially prepared
(Chemistry--Physical, TT, v. 10, no. 2) (over)

I. Löffler, H. J.
II. König, H.

Office of Technical Services

Viscosity and Temperature of Liquids, by U. Rost, 36 pp
GERMAN, per, Kolloid Z., Vol 142, No 2-3, Jul 1955,
pp 132-150.

SIA TR 57-2142

Sci

65,779

Colorimetric Method for a Quantitative Determination
of Ethylene Oxide Adducts, by N. Schönfeldt, 1 p.

GERMAN, per, Kolloid Zeit, Vol CXLII, 1955, p 164.

CIA/FDD XX-251

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Sci - Chemistry

Feb 1957 GTS/dex

IAC INTERNAL USE ONLY

44, 194

R-889-N

Nichtstationares flieben hochviskoser stoffe, by
Linder, Von Rolf

GERMAN, per, Kolloid Zeitschrift, Vol CXLIII, No 3,
Aug 1955, pp 144-154

*JPRS/US Army Ord Missile Comm
Redstone Arsenal, Alabama

Sci
May 62

The Viscoelastic Behaviour of High Polymers, by J.
Koppelman.

GERMAN, per, Kolloid Z., Vol CXLIV, 1955, (P
12-41.

ASUHI-CH39

Sci

Jul 59

92, 364

New Method for the Production of Small-Angle
X-Ray Photographs Free of Diaphragm Scattering,
III, by M. Slade, 21 pp.

GERMAN, per, Kolloid Z^{hft.}, Vol CXLIV, No 1/3,
1955, pp 110-120.

SLA Tr 57-2726

Sci

Kul 58
J

68,344

Lösche, A. and Hultschig, H.
DIELECTROPHORESIS IN LIQUIDS (Dielektrophorese
in Flüssigkeiten). [1960] [19]p. 6 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10532

Trans. of Kolloid Zeitschrift (West Germany) 1955,
v. 141 [no. 3] p. 177-187.

148,532

(Chemistry--Physical, TT, v. 5, no. 7)

61-10532

1. Electrophoresis
 2. Liquids--Dielectric properties
 3. Polymer solutions--Dielectric properties
- I. Lösche, A
 - II. Hultschig, H

Office of Technical Services

Relationship between Viscosity and
Composition of Binary Sodium Silicate
Glasses. Part I by E. Eipeltaufer, G.
Jangg.

GERMAN, per, Kolloid-Zeitschrift, Vol 142,
No 2/3, 1955, pp. 77-84.

NTC 69-10781-11B

Sci-Mat
July 69

386,764

Relationship between Viscosity and
Composition of Binary Sodium Silicate
Glasses. Part II. by E. Eipeltaufer,
G. Jangg
GERMAN, per, Kolloid-Zeitschrift, Vol.
143, no 2, pp. 83-92.
NTC 69-10732-11B

Sci-Mat
July 69

386,765

R-562

Determination of the Crystalline Fraction in
Polyethylene IV, by Kortsch

GERMAN, per, Kolloid Zeitschrift, Vol. CXXXIII,
1955, pp 176-177

*JPRS for ARGMA

Sci
May 61

Kinetics of Penetration and Displacement
in Emulsions, by W. Kling, H. Jander, et al.

GERMAN, part, Holland M., Vol CIVIL, 1970
pp 150-159.

CIA/END-EX 700
NOFORN

Sci

Nov 50

4510/10/50

Use 5/10/50

101, 200

English Title Unknwon, by G. W. Becker.
GERMAN, per, Kolloid Zeitschrift, Vol 148, 1956,
pp 6-16.

*NASA TT F-12,008

Nov 68

Adsorption Properties and Surface Structure
of Quartz Powders, by W. Stüber.

ECHENIAN, par, Kolloid-Zeitschrift,
Vol XLIV, 1956, pp 17-46.

CSIRO

ATS/936-65

Sat - Mon/Mar
Jan 62

199,584

Molecular Weight and Inhomogeneity of High Polymers
From Rheological Measurements, by K. Ebelmann, 31 pp.

GERMAN

~~RESEARCH~~, per, Kolloid^{ist}, Vol CILW, No 2, 1956,
pp 92-102.

SLA Tr 1675 *Jan 1957*

Sci - Chem

Apr 1957

46, 214

A New Consistometer and a New Electrical Rotational
Viscometer, by W. Heinz, 14 p.

GERMAN, per, Kolloid-Zeit, 1956, Vol CXLV,
No 2, pp 119-125.

SLA 59-20315

Sci
Mar 60
Vol 2, No 11

109,548

Temperature Shift of the Dielectric Loss Factor
Maxima of High Polymers with Frequency, by H.
Thurn and F. Wuerstlin.

GERMAN, per, Kolloid *W* Z., Vol CXLV, 1956, pp
133-139.

ASLIB-CD57

Sci

AUG 13 58

71, 219

Effect of Molecular Orientation on the Dielectric
Relaxation System, by F. Müller, K. Ruff.

GERMAN, per, Kolloid Z., Vol CXLV, No 3, 1956, pp
157, 158.

^R
CS 130-3323

Sci

Aug 59

95, 136

Wäser, Bruno. COLLOIDS AND CORROSION. [1960] 17p. 224 refs. Order from SLA ml\$2.40, ph\$3.30 61-10320 Trans. of Kolloid-Zeitschrift (West Germany) 1956, v. 145 [no. 3] p. 158-163. A survey of German patents. 147, 109 (Metallurgy--Corrosion, TT, v. 5, no. 5)	61-10320 1. Corrosion--Theory 2. Colloids--Theory 1. Wäser, B. Office of Technical Services
---	--

Thermal Diffusion in Solutions of Macromolecular Substances, by C. Langhegger, 8 pp.

GERMAN, par, Kolloid Z., Vol CXLVI, no. 1-3, 1956, pp 44-48.

Sci

Jul 58

~~CONFIDENTIAL~~ 451103

recd Tech Serv

68, 335

Electronic Apparatus for Measuring
the Dynamic Elasticity and Viscosity of
Rubber-Like Materials, by A. Betticher,
V. Harding, et al.

CHITMAN, per, Kolloid-Zeitschrift,
Vol. CXLVIII, No 1/2, 1956, pp 66-73.

CSIRO

Sci - Electron
Jun 62

199,585

TT-64-16901

Hartmann, A.
ON THE CATALYTIC ACCELERATION OF
THERMAL HYDROCHLORIC ACID CLEAVAGE FROM
POLYVINYLCHLORIDE. 9p 9refs.
Order from SLA \$1.10

I. Hartmann, A.

TT-64-16901

Trans. of Kolloid Zeitschrift und Zeitschrift für
Polymere (West Germany) 1956, v. 149, no. 2/3,
p. 67-[72].

(Chemistry--Physical, TT, v. 12, no. 5)

Office of Technical Services

Kaiser, Rudolf.
ORIENTATION IN STRETCHED AND TEMPERED
POLYETHYLENE FILMS. 18p 18refs
Order from SLA \$1.60

TT-64-16328

I. Kaiser, R.

TT-64-16328

Trans. of Kolloid Zeitschrift [und Zeitschrift für
Polymere] (West Germany) 1956, v. 149[no. 2/3]
p. 84-95.

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

On the Reaction Mechanism of the Vulcanization of Poly-1, 5-Dienes, in Particular Natural Rubber, by Thiram Disulfides, by O. Bielstein and W. Scheele.

GERMAN, per, Kolloid Z., Vol. CXLVII, 1956, pp 152-154.

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Aug 58

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Veith, H.

THERMAL STABILITY OF PAPER IN A VACUUM
(Zur Thermischen Stabilität von Papier im Vakuum).

[1963] 10p. (figs. omitted) 13 refs.

Order from SLA \$1.10

63-14412

Trans. of Kolloid-Zeitschrift (West Germany) 1957,
v. 150, p. 14-19.DESCRIPTORS: *Paper, Pyrolysis, Stability, Vacuum
apparatus, Driers (Apparatus), Water vapor, Cellulose,
Electric insulation.

Experimental investigations demonstrated that the decomposition reaction of paper in a vacuum is characterized by the formation of three gaseous decomposition products: water vapor, carbon dioxide and carbon monoxide. The decomposition reaction proceeds quite uniformly over a large temperature range (studies (Materials--Paper, TT, v. 10, no. 3) (over)

63-14412

I. Veith, H.

Office of Technical Services

Molecular Theory of Diffusion, by
H. Schrufer, 6 pp.
GERMAN, Ger, Kolloid-Z, 150, 1957,
pp. 34-39.
*CPST 70-58116
AVAILABLE FROM NDS ONLY

Sci/pays
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Capillary Structures in Ionotropic Gels,
by H. Thiele, K. Hallich.
GERMAN, per, Kolloid Zeitschrift, Vol 151,
March, 1957, pp 1-12.
AEC-Windscale Tr-184

Sci-Chem
May 65

Schram, A.
CONCERNING THE STRUCTURE OF POLYETHYL-
ENE. 9p 15refs
Order from SLA \$1.10

TT-64-16508

Trans. of Kolloid Zeitschrift [und Zeitschrift für
Polymere] (West Germany) 1957,
v. 151, (no. 1) p 18-24.

Other translations are available from SLA and \$1.80,
pb \$1.80 as TT-59-15927(7p) and \$1.60 as
TT-61-20652 (11p)

(Physics--Solid State, TT, v. 12, no. 4)

TT-64-16508

I. Schram, A.

Office of Technical Services

TT-64-16903

Kastner, S. and Schlosser, E.
ON THE PHENOMENOLOGICAL THEORY OF VISCO-
ELASTICITY. I. THE BASIC RELATIONS OF THE
LINEAR SCALAR RELAXATION THEORY. 8p 15refs.
Order from SLA \$1.10 TT-64-16903

Trans. of Kolloid-Zeitschrift und Zeitschrift für
Polymere v. 152 [no. 2] p. 116-[121].

I. Kastner, S.
II. Schlosser, E.
III. Title: Basic ...

(Mechanics; TT, v. 12, no. 5)

Office of Technical Services

Changes in the Dielectric Relaxation Spectrum
of High Polymers Through Drawing,
by K. Ruff, F. Müller.

GEIMAN, per, Kolloid-Z. Vol CLXX, No 1,
1957, pp 5-28.

CSIRO 5289

Sci - Chem
Jul. 62

207,619

Behavior of Carboxymethylcellulose on the
Contact Surface of Textile Fibers, by
J. Stawitz, W. Klaus, H. Krümer, 1 p.

~~ABSTRACT~~

GERMAN, per, Kolloid Z, Vol CL, 1957,
pp 39-44.

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/FDD XX-303

Sci - Chemistry

Jun 57

IAC INTERNAL USE ONLY

49,152

An Attempt at a Valence-Induced Reaction
Time-Dependent Behavior of Polyphosphoric Acid
H. Risch, 9 pp.

GERMANY, Ger, Holland-Zeitschrift, Vol. 62, No. 7,
1957, pp 153-155.

CIA 52-15280

Sci
Jan 60
Vol 8, No 7

104823

Transformation Interval and Tension-Elongation
Behavior, by P. Muller, A. Engelter,

GERMAN, par, Kolloid Zeitschrift, Vol XII, No 2,
pp 157-158. 1957

C.B.I.R.O. 4467

Sci - Med

May 60

115 925

Measurement of Force Pattern During Brief
Disruption of Plastics Through an Explosive
Detonation by Means of a Strain Gauge Strip
(Extensometers or Dilatometers), by H. Kaufer,
W. Christmann, 17 pp.

GERMAN, per, Kolloid Z., Vol CLII, No 1, 1957,
pp 18-23.

51-
SLA 10433

Sci-Flys
Jun 59
OTB 1, 10

89, 712

Würstlin, F.
AN ATTEMPTED MOLECULAR EXPLANATION OF
EXTERNAL PLASTICIZING OF HIGH POLYMERS.
[1962] 11p; (12 r.f.s. omitted) 16 r.f.s.
Order from SLA \$1.60

62-16706

Trans. of Kolloid-Zeitschrift (West Germany) 1957,
v. 152, no. 1, p. 11-16.

DESCRIPTORS: *Polymers, *Plasticizers, Plasticity,
Organic solvents, *Thermodynamics.

The conception of a thermodynamic equilibrium exist-
ing in every plasticized material between solvated and
unsolvated plasticizer molecules arose out of previous
measurements on plasticized materials. The equi-
librium depends on the nature of the high polymeric
substance and the plasticizer, on the concentration of
the plasticizer, and the temperature. The unsolvated
plasticizer molecules are the ones that diffuse, and
(Materials--Plastics, TT, v. 8, no. 7) (over)

62-16706

I. Würstlin, F.

Office of Technical Services

Couette Measurements With Roughened Cylinders, by
A. Fincke, W. Heine, 3 pp.

GERMAN, per, Kolloid-Zeitschrift, Vol CLII, No 2, 1957,
pp 148-149.

SLA 60-14003

Sci

Sep 61.

Vol III, No 9

61-16737

Hess, K., Steinmann, R. and others.
INCORPORATION OF IODINE AND THALLIUM IN
THE NONCRYSTALLINE AND CRYSTALLINE RE-
GIONS OF CELLULOSE FIBERS: DATA FOR THE
REACTIVITY OF CELLULOSE. [1961] [70]p. 49 refs.
Order from SLA \$6.60 61-16737

Trans. of Kolloid-Zeitschrift (West Germany) 1957,
v. 153, no. 2, p. 128-155.

DESCRIPTORS: *Iodine, *Thallium, *Cellulose,
*Fibers, Chemical reactions, Crystal structure.

The iodation and thallation of cellulose was suggested
by the observation that these kinds of fibers when
"colored" in a proper way show characteristic large
periods in the direction of the fiber under the electron
microscope. Conditions were achieved under which the
intercalation taken place exclusively in the amorphous
regions. On the basis of the observation that in the
(Materials--Textiles, TT, v. 6, no. 6) (over)

I. Hess, K.
II. Steinmann, R.
III. Title: Data...

176573

Office of Technical Services

Buzagh, A., Udvarhelyi, Katharina, and Horkay, F.
FRACTIONATED COAGULATION OF PHENOL-
FORMALDEHYDE RESINS WITH AQUEOUS ELEC-
TROLYTIC SOLUTIONS. [1963] 23p. (figs. refs.
omitted).

Order from SLA 52,60

63-16496

Trans. of *Kolloid-Zeitschrift* (West Germany) 1957,
v. 154, no. 2, p. 130-141.

DESCRIPTORS: *Phenol-formaldehyde resins,
*Phenolic plastics, *Acetyl plastics, Coagulation,
Separation, Colloids, Water, Electrolytes.

Fractionated coagulation of phenol-formaldehyde resins
dissolved in alcohol and dioxane with aqueous electro-
lytic solutions was studied. The separation of the
resins from alcoholic solutions by means of aqueous
electrolytic solutions took place under the formation of
(Materials--Plastics, TT, v. 10, no. 7) (over)

63-16496

I. Buzagh, A.
II. Udvarhelyi, K.
III. Horkay, F.

Office of Technical Services

Electron Microscopic Representation of Long
Periodic Intervals in Cellulose Fibres and
Comparison with the Periods of other Kinds of
Fibres, by Kurt Hess, Hans Mehl, Ernst Guttor, 43 p.

GERMAN, per, Kolloid-Zeit, 1957, Vol CIV, No 1,
pp 1-19.

SLA 59-17512

Sci
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Vol 2, No 8

105,529

61-22160

Schurz, J.
EMPIRICAL RELATIONS BETWEEN THE FLOW
CURVES OF HIGH POLYMER SOLUTIONS AND THE
PROPERTIES OF THE DISSOLVED MOLECULES.

PT. 2. [1951] 15p.

Order from ATS \$42.40

ATS-26N4SG

Trans. of Kolloid-Z[schritt] (West Germany) 1957,
v. 185, no. 1, p. 45-55.

1. Polymers--Viscosity
2. Solutions--Viscosity
3. Molecules--Physical
properties

- I. Schurz, J.
- II. ATS-26N4SG
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-708-GJ

(Chemistry--Physical, TT, v. 5, no. 11)

Schurz, J.
EMPIRICAL RELATIONSHIPS BETWEEN THE FLOW
CURVES OF HIGH-MOLECULAR SOLUTIONS AND
THE PROPERTIES OF THE DISSOLVED MOLECULES.
PT. 3. [1951] 15p.
Order from: ATS 322.65

ATS-27N40G

Trans. of Kolloid-Z[eitschrift] (West Germany) 1957,
v. 155, no. 1, p. 55-64.

ATS-709-GJ

(Chemistry--Physical, TT, v. 5, no. 11)

61-22161

1. Polymers--Viscosity
2. Solutions--Viscosity
3. Molecules--Physical properties

I. Schurz, J.

II. A15-27N40G

III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-16482

I. Ulmann, M.

Ulmann, M.
DETERMINATION OF THE CHEMICAL NATURE OF
THE SHELL OF A SWELLED STARCH GRANULE.
[1963] 16p. 30 refs.
Order from SLA \$1.60

63-16482

Trans. of Kolloid Zeitschrift (West Germany) 1957,
v. 150, no. 2, p. 128-134.

DESCRIPTORS: *Starches, *Amylose, *Pectins,
Chemical analysis, Separation, Sodium compounds,
Salicylic acids, Solvents.

In the separation of the starch constituents with sodium
salicylate solutions into a "shell substance" insoluble
in this solution, and the "starch substance" which is
soluble therein, the constituents are amylopectin and
amylose, as was proved with a chromatographic in-
vestigation using a Al_2O_3 -column. In several in-
(Biological Sciences--Biochemistry, TT, v. 10, no. 7)
(over)

Office of Technical Services

Couette Measurements With Roughened Cylinders, by
A. Fincke, W. Heinz, 3 pp.

GERMAN, per, Kolloid-Zeitschrift, Vol CLII, No 2, 1957,
pp 148-149.

SLA 60-14008

Sci

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Vol III, No 9

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The Effect of Mechanical Treatment on the
Reactivity of Solids, by Gerhard Maesser,
Werner Scholz.

GERMAN, per, Kolloid-Zeit, Vol 156, No 1,
1958, pp 1-8.

NAV/NIC/TRAN-2829-69

Sci-Mat

Aug 69

389,978

Prietzsch, A.
THE CRYSTAL STRUCTURE OF THE POLYCARBONATE
FROM 4,4'-DIHYDROXYDIPHENYL-2,2-PROPANE.
[1962] 16p. 4 refs.
Order from S.L.A. \$1.60

62-20359

Trans. of Kolloid-Zeitschrift (West Germany) 1958,
v. 156, no. 1, p. 8-14.

DESCRIPTORS: Polymers, *Carbonates, *Phenyl
radicals, *Hydroxides, *Propanes, *Crystal structure.
X-ray diffraction analysis.

The polycarbonate obtained from 4,4'-dihydroxydiphenyl-
2,2-propane is susceptible of crystallization and orien-
tation despite its bulky construction. Owing to the inter-
locking of the large zigzag chains with their aromatic
rings, the crystal structure is very stable. This fact and
the considerable stiffness of the molecules may explain
the high transformation temperatures. (Author)
(Chemistry--Physical, TT, v. 10, no. 1)

62-20369

I. Prietzsch, A.

Office of Technical Services

Gels as Salts of Polyelectrolytes, by H. Thiele,
H. Asfeldt,

GERMAN, part, Kolloid Z, Vol CLVI, No 1, 1958, pp 14-21.

ATS 444-CJ

Sci - Chem

Aug 60

123,347

Electron Microscope Examinations of Mullite,
by Th. Hemetschek, 27 pp.

GERMAN, per, Kolloid-Z, Vol CLVI, No 1, 1958,
pp 46-64.

SLA 60-18798

Sci

Apr 61

146,201

On the Theory of Coagulation of Electrically
Uncharged Aerosols, by Gunter Zebel, 18 pp,

GERMAN, Det. Kolloid Z, Vol CLVI, No 2, 1958,
pp 102-107.

SLA 59-10948

Sci - Phys

Jul 59

OTS I, 11

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The Effect of Mechanical Treatment on
the Reactivity of Solids, by
Gerhard Naeser, Werner Scholz.
GERMAN, per, Kolloid-Zeit, Vol 156, No 1,
1958, pp 1-8.
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Sci-Phys
May 69

382,751

On the Theory of the Behavior of Electrically
Charged Aerosols, by Gunter Zobel.

GERMAN, per, Kolloid-Zeit, Vol 157, No 1,

pp 37-50.

NAV/NIC/Tran-2888-69

Sci-Phys

Oct 69

393,311

Oriented Crystallisation Of Polythene On Rock Salt
by E.W. Fischer.

GERMAN, per, Kolloid-Zeitschrift, Vol CLVIX, No 2,
1958, pp 108-118

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Oct. 62

Changes in Soap Particles Subjected to Ultra-
sonic Vibration, by H. Mahl.

GERMAN, per, Kolloid Zeitschrift,
Vol CLVI, No 2, pp 113-116.

CSIRO

Sci - Min/Met

191, 743

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Natural Rubber as a Packing of Elastically
Deformable Sphero-Colloidal Macromolecules, by
Th. G. V. Schoon, 17 p.

GERMAN, par, Kolloid-Ges, Verhandlungsberichte,
1958, Vol LVIII, pp 122-131. Kolloid Zeit. 1958.
Vol CXXX, pp 122-132.

SLA 59-10880

Jan 60

Sci

Vol 2, No 5

104, 591